Avaya 1200 Series Expansion Module for SIP Software User Guide

Communications Server

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Regulatory and safety information

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/ TV technician for help.

Attention: The user should not make changes or modifications not expressly approved by Avaya. Any such changes could void the user's authority to operate the equipment.

This Class B digital apparatus complies with Canadian ICES-003. Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

Warnings:

- This is a Class B product. In a domestic environment this product can cause radio interference in which case the user must take adequate measures.
- Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

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　取扱説明書に従って正しい取り扱いをして下さい。

Table 1 lists EMC compliance for various jurisdictions.

Table 1: EMC compliance

Jurisdiction	Standard	Description
United States	FCC CFR 47 Part 15	Class B Emissions: FCC Rules for Radio Frequency Devices
Canada	ICES-003	Class B Emissions: Interference-Causing Equipment Standard: Digital Apparatus
Australia/New Zealand	AS/NZ CISPR 22 CISPR 22	Class B Emissions: Information technology equipment - Radio disturbance
European Community	EN 55022	Class B Emissions: Information technology equipment - Radio disturbance
	EN 55024	Information technology equipment - Immunity characteristics Limits and methods of measurement
	EN 61000-3-2	Limits for harmonic current emissions (equipment input current <= 16 A per phase)
	EN 61000-3-3	Limitation of voltage fluctuations and flicker in low-voltage supply systems for equipment with rated current <= 16 A
Japan	VCCI	Regulations for voluntary control measures.

Other

This equipment complies with the CE Marking requirements. CE

EU Countries: This device complies with the essential requirements and other relevant provisions of EMC and LVD directives. A copy of the Declaration may be obtained from http://support.avaya.com/css/appmanager/public/support.

DenAn regulatory notice for Japan

⚠ Warning

Please be careful of the following while installing the equipment:

- Please only use the Connecting cables, power cord, AC adaptors shipped with the equipment or specified by Nortel to be used with the equipment. If you use any other equipment, it may cause “failures, malfunctioning or fire”.
- Power cords shipped with this equipment must not be used with any other equipment. In case the above guidelines are not followed, it may lead to death or severe injury

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Introduction

This document describes the Avaya 1200 Series Expansion Module with SIP Software and how to use it with the IP Deskphone.

Description

The Avaya 1200 Series Expansion Module (SIP Firmware) is supported on the following IP Deskphones:

- Avaya 1220 IP Deskphone
- Avaya 1230 IP Deskphone

The Expansion Module is a hardware accessory that connects to the IP Deskphone and provides additional line appearances and feature keys.

Figure 1 on page 10 shows the Avaya 1230 IP Deskphone with the LCD Expansion Module: 12-key Self labeling.

Figure 2 on page 11 shows the Avaya 1230 IP Deskphone with the LED Expansion Module: 18-key paper label.

Figure 1: Avaya 1230 IP Deskphone with the LCD Expansion Module: 12-key Self labeling

Figure 2: Avaya 1230 IP Deskphone with the LED Expansion Module: 18-key paper label

Features

The Avaya 1100 Series Expansion Module has the following features:

- The Avaya 1220 IP Deskphone and Avaya 1230 IP Deskphone can support up to 7 Expansion Modules .
- A desk-mounted bracket and structural baseplate support the connection of an Expansion Moduleto an IP Deskphone or to another Expansion Module.
- IP Deskphone and Expansion Module combination can be wall-mounted using the wall mount template provided.
- Power supplied directly by the IP Deskphone.
- Backlight and adjustable contrast

  Note: If the IP Deskphone is powered using PoE (Power over Ethernet) the backlight of the Expansion Mdules is disabled.

- The Expansion Module displays similar graphics for the key label and icons as are displayed on the main IP Deskphone.
- Programmed keys are stored in the user profile. You can maintain your own list of programmed feature keys. You can program the feature keys as:
  - 1. Speed Dial
  - 2. Presence
  - 3. Send IM
  - 4. Call Forward
  - 5. Do Not Disturb
- You can automatically populate the unused Expansion Module feature keys using the friends list or the address book as sources.

Call Server Support

There is no specific dependency on the Call Server for the vaya 1100 SeriesExpansion Module to be functional. However, the Friends List and the Presence notification are Call Server dependant and may require

changes to the user package of your IP Deskphone. Contact the system administrator or service provider for further information.

Avaya 1100 Series Expansion Module display

The Expansion Module is equipped with an LCD display area beside the 12 line/feature keys (see Figure 1 on page 10). Each of the 12 physical keys on the Expansion Module has a 10-character display label. This label is set automatically; however, the user can edit the label using the controls on the IP Deskphone.

Adjusting the Avaya 1100 Series Expansion Module display screen contrast

To adjust the Avaya 1100 Series Expansion Module screen contrast, press the **Prefs** context-sensitive soft key, select **Display**, and select **Contrast**.

> ***Note:*** Contrast adjustment on the expansion module is controlled by the same control the IP Deskphone uses for the main display.

To adjust the Expansion Module display screen contrast:

1. Press the **Left/Right** navigation key to increase or decrease the display contrast level.

Set

Back

2. Choose one of the following:
   - Press the **Set** context-sensitive soft key to save the changes and return to the Display menu.
   - Press the **Back** context-sensitive soft key to keep existing configurations and return to the Display menu.

Backlight

The Avaya 1100 Series Expansion Module has a firmware controllable backlight. The Expansion Module draws power from the phone and requires no external power adapter. Because of the higher power consumption of the backlight, if the IP Deskphone is connected using PoE, backlight is not supported; otherwise, the Expansion Module can still operate normally.

The type of power supply to the phone controls what is functional on the Expansion Module. The Expansion Module's backlight can only light when the local 48V power supply is present. On the other hand, either local 48V power supply or Power over Ethernet (PoE) to the phone will power all of the Expansion Module's other functionality. To have the backlight on for the Avaya 1200 Series Expansion Module, the IP Deskphone should be powered by AC global power supply only.

Icons

The Avaya 1100 Series Expansion Module supports the same icons and cadences that appear on the IP Deskphone line keys.

Icons on the display can flash at pre-defined intervals to indicate different status. The flashing interval is defined by the IP Deskphone with the flashing effect performed by the Expansion Module.

Setup and assembly

The Avaya 1100 Series Expansion Module mounts on the right side of the IP Deskphone. The Expansion Module snaps into the Accessory Expansion Module (AEM) on the back of the IP Deskphone using the desk-mount bracket and structural baseplate supplied with the Expansion Module.

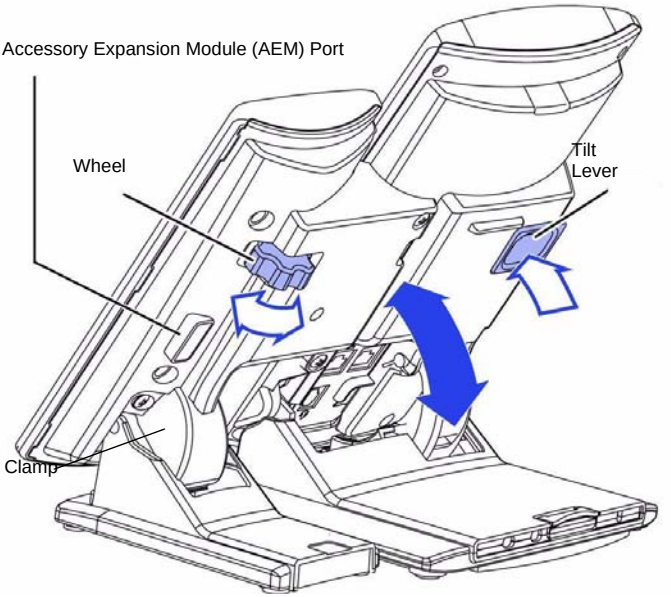
Installing the Avaya 1100 Series Expansion Module

Use the following instructions to install the Avaya 1100 Series Expansion Module.

CAUTION
Damage to Equipment
To avoid damaging the equipment, remove the power (PoE cable, or local power) from the IP Deskphone before connecting the Expansion Module.

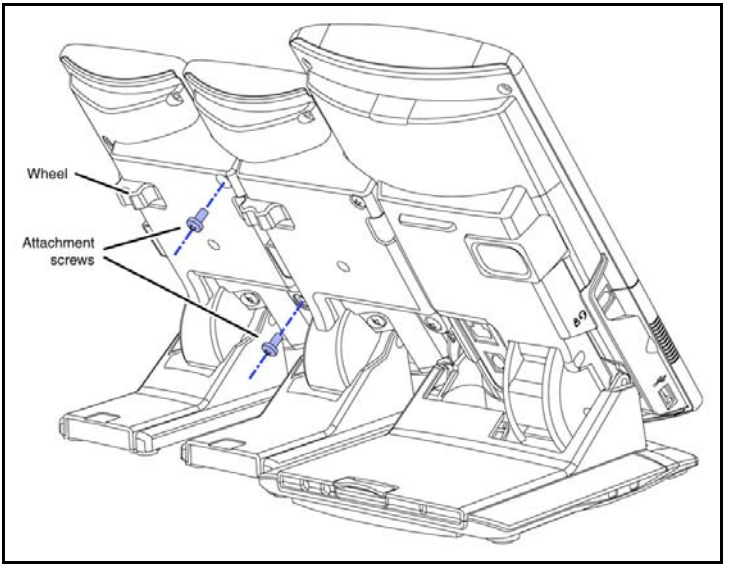
1. Press the tilt lever to adjust the stand angle on the IP Deskphone. You can adjust the stand angle to maximum, instead of removing the stand. See Figure 3.

Figure 3: Adjusting the stand angle on the IP Deskphone



2. At the back of the IP Deskphone, remove the rubber plug from the AEM port. Place the connecting arm of the Expansion Module behind the IP Deskphone and align the Expansion Module connection plug to the AEM port on the back of the IP Deskphone.
3. Insert the screws in to the top and bottom holes of the connecting arm of the Expansion Module and tighten until snug. See Figure 4 on page 17.

Figure 4: Connecting the Expansion Module



4. If connecting a second, or a third Expansion Module, repeat steps 2 to 4.

   Note: The second Expansion Module is attached to the right side of the first Expansion Module. The third Expansion Module is attached to the right side of the second Expansion Module.

5. Adjust the height of the IP Deskphone tilt adjustment to a comfortable viewing angle. Then adjust each of the Expansion Module footstands so they are flush to the desk surface. Turn the wheel on the back right side of the Expansion Module to the right (if viewed from the front) to tighten the Expansion Module.

WARNING

Do not over tighten the wheel on the Expansion Module.

6. Connect power to the IP Deskphone. The Expansion Module powers up.

   Note: The Expansion Module uses the electrical connection of the IP Deskphone for power. It does not have its own power source.

Expansion Module startup initialization

After the Avaya 1100 Series Expansion Module is installed and powered up on the IP Deskphone, the Expansion Module initializes.

Table 2 on page 18 lists the initialization process for the Expansion Module.

Table 2: Initializing Expansion Module (Part 1 of 2)

Phase	Description
Expansion Module performs self-test	The self-test confirms the operation of the Expansion Module local memory, CPU, and other circuitry. While undergoing this self-test, the Expansion Module display lights up. ***Note:*** If the Expansion Module display does not light up, or lights up and then goes blank, or fails to begin flashing, check that the Expansion Module is correctly installed and configured.
Expansion Module establishes communication with the IP Deskphone	The Expansion Module display flashes until it establishes communication with the IP Deskphone. If the Expansion Module display does not stop flashing, communication has not been established with the IP Deskphone. Check that the Expansion Module is correctly installed and configured.

Table 2: Initializing Expansion Module (Part 2 of 2)

Phase	Description
Software upgrade	The Expansion Module software is distributed together with the IP Deskphone software as a part of the application. When the IP Deskphone detects a new Expansion Module, the software version of the Expansion Module is compared to the version of the Expansion Module software stored on the IP Deskphone. If the software of the Expansion Module is different, the IP Deskphone version of the software is uploaded to the Expansion Module. After the updating of the Expansion module completes (if needed), the software now present on the Expansion Module runs the Expansion Module.

After the three phases complete successfully, you are ready to use the additional self-labeled line programmable feature keys on the Expansion Module.

If you have a second, third, or fourth Expansion Module installed on your IP Deskphone, the one to the immediate right of the IP Deskphone must be functional so that subsequent Expansion Module to work. This is necessary because the second Expansion Module receives its power and communicates with the IP Deskphone through the first Expansion Module; and the third Expansion Module receives its power and communicates with the IP Deskphone through the second Expansion Module; and the fourth Expansion Module receives its power and communicates with the IP Deskphone through the third Expansion Module.

Using the wall-mount option

IP Deskphone and the Avaya 1100 Series Expansion Module combination can be wall-mounted using the wall mount template provided.

Adjusting the tilt base

The Avaya 1100 Series Expansion Module stand provides a continuous tilt adjustment so the tilt angle matches the IP Deskphone stand angle while accommodating variations in the desk surface. A clamp mechanism is used to unlock and lock the foot stand angle from wall mount to desktop configuration.

CAUTION
Do not over tighten the wheel on the Expansion Module.

The Expansion Module is tightened by turning the wheel clockwise and loosened by turning the wheel counter-clockwise.

Turn the wheel clockwise on the back right side (if viewed from the front) of the Expansion Module to loosen the stand hinge. Adjust the angle of the IP Deskphone using the tilt lever. When the IP Deskphone is set to a preferred angle, turn the wheel counter-clockwise on the back of the Expansion Module to tighten the stand hinge and lock the stand at the same angle as the attached IP Deskphone.

Avaya 1100 Series Expansion Module programming

When an Avaya 1100 Series Expansion Module is installed on an IP Deskphone, the controls and settings of the IP Deskphone control the IP Deskphone and the Expansion Module.

For more information about controls, settings, and programming of your Expansion Module through your IP Deskphone, see your IP Deskphone User Guide:

- *Avaya 1220 IP Deskphone with SIP Software User Guide* (NN43170-101)
- *Avaya 1230 IP Deskphone with SIP Software User Guide* (NN43170-102)